



Bow-Tie Trillion

by Clara Venter

Gemology Online Faceting Design Competition 2014

Cutthroat Entry 1

Angles for R.I. = 1.540

67 + 9 girdles = 76 facets

3-fold, mirror-image symmetry

96 index

L/W = 1.078 T/W = 0.432 U/W = 0.374

P/W = 0.426 C/W = 0.181

Vol./W³ = 0.175

PAVILION

P1	44.08°	04-28-36-60-68-92	Cut to centerpoint.
P2	46.72°	02-30-34-62-66-94	Meet at culet.
P3	47.50°	01-31-33-63-65-95	Meet at culet.
G1	90.00°	96-32-64	Set stone size.
G2	90.00°	03-29-35-61-67-93	Meet P2, P3, G1
P4	50.00°	96-32-64	Level girdle.
P5	49.01°	03-29-35-61-67-93	Level girdle.

CROWN

C1	45.27°	96-32-64	Set girdle width.
C2	45.00°	03-29-35-61-67-93	Level girdle.
C3	36.00°	05-27-37-59-69-91	Meet G1, G2
C4	41.00°	01-31-33-63-65-95	Meet G1, G2, C2, C3
C5	35.00°	01-31-33-63-65-95	Meet C1, C4; C2, C3, C4
C6	31.80°	96-32-64	Meet C1, C4, C5
C7	25.00°	96-32-64	Meet C3, C5
C8	29.00°	07-25-39-57-71-89	Meet C5, C6, C7
T	0.00°	Table	Meet C7, C8

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